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LOGINID:ssspta1201txs

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	STN Patent Forums to be held in June 2005
NEWS	20	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	21	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
NEWS	23	JUN 20	MEDICONF to be removed from STN
NEWS	24	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels

NEWS EXPRESS	JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:36:45 ON 29 JUN 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:36:53 ON 29 JUN 2005
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STRUCTURE FILE UPDATES: 28 JUN 2005 HIGHEST RN 853177-57-8
DICTIONARY FILE UPDATES: 28 JUN 2005 HIGHEST RN 853177-57-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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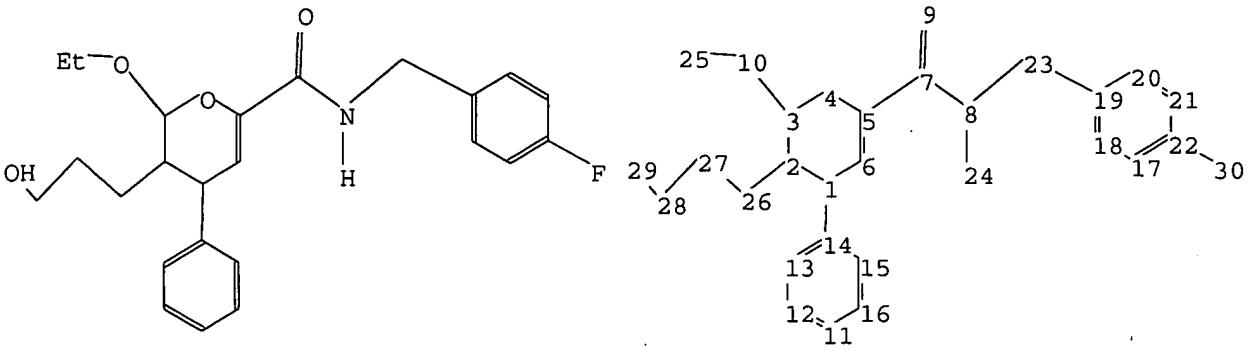
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10649532.str



chain nodes :
7 8 9 10 23 24 25 26 27 28 29 30
ring nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19 20 21 22
chain bonds :
1-14 2-26 3-10 5-7 7-8 7-9 8-23 8-24 10-25 19-23 22-30 26-27 27-28
28-29
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 17-18
17-22 18-19 19-20 20-21 21-22
exact/norm bonds :
3-10 7-8 7-9 8-23 28-29
exact bonds :
1-2 1-6 1-14 2-3 2-26 3-4 4-5 5-6 5-7 8-24 10-25 19-23 22-30 26-27
27-28
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16 17-18 17-22 18-19 19-20 20-21 21-22
isolated ring systems :
containing 1 : 11 : 17 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 14:37:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 14:37:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 14:37:24 ON 29 JUN 2005
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FILE COVERS 1907 - 29 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 28 Jun 2005 (20050628/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 1 L3

=> d l4 ibib hitstr abs

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:252228 CAPLUS
DOCUMENT NUMBER: 140:287266
TITLE: Preparation of dihydropyrancarboxamides as e.g. kinesin inhibitors for treatment of proliferative disorders.
INVENTOR(S): Schreiber, Stuart L.; Stavenger, Robert A.; Mitchison, Timothy J.; Maliga, Zoltan
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 115 pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

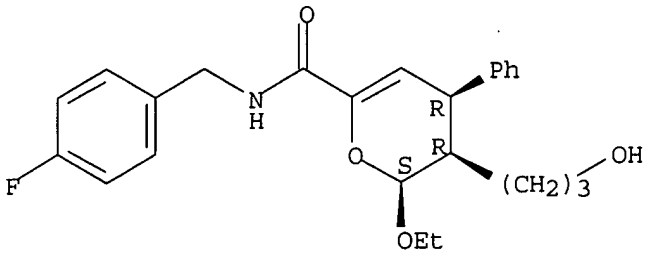
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004059138	A1	20040325	US 2003-649532	20030827
PRIORITY APPLN. INFO.:			US 2002-406140P P	20020827

OTHER SOURCE(S): MARPAT 140:287266

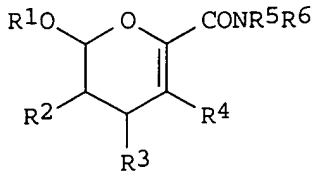
IT **675139-93-2P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of dihydropyrancarboxamides as e.g. kinesin inhibitors for treatment of proliferative disorders)

RN 675139-93-2 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-N-[(4-fluorophenyl)methyl]-3,4-dihydro-3-(3-hydroxypropyl)-4-phenyl-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



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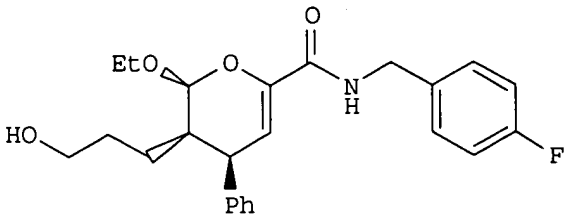

II

AB Title compds. [I; R1-R6 = H, (substituted) aliphatyl, heteroaliphatyl, aryl, heteroaryl, alkylaryl, alkylheteroaryl; R5R6 = atoms to form cyclic aliphatyl, heteroaliphatyl, aliphatylaryl, heteroaliphatylaryl,

aliphatylheteroaryl, heteroaliphatylheteroaryl, aryl, heteroaryl], were prepared A library of 4320 dihydropyrancarboxamides was prepared; claimed title compound (II) was shown to be inhibitory against Eg5 kinesin. Solid support synthesis and decoding methodolgy is described.

```
=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    10.34     171.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.73      -0.73

FILE 'REGISTRY' ENTERED AT 14:44:25 ON 29 JUN 2005
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STRUCTURE FILE UPDATES:   28 JUN 2005  HIGHEST RN 853177-57-8
DICTIONARY FILE UPDATES:  28 JUN 2005  HIGHEST RN 853177-57-8

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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Uploading C:\Program Files\Stnexp\Queries\106495321.str
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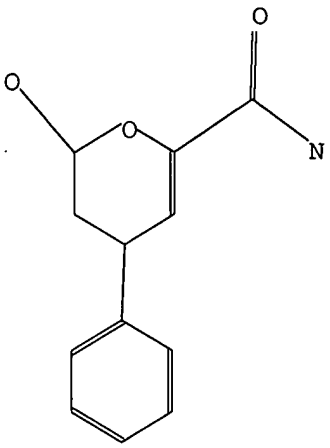

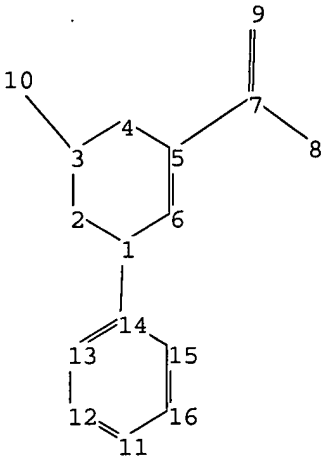

chain nodes :
7 8 9 10
ring nodes :
1 2 3 4 5 6 11 12 13 14 15 16
chain bonds :
1-14 3-10 5-7 7-8 7-9
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16
exact/norm bonds :
3-10 7-8 7-9
exact bonds :
1-2 1-6 1-14 2-3 3-4 4-5 5-6 5-7
normalized bonds :
11-12 11-16 12-13 13-14 14-15 15-16
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L5 STRUCTURE UPLOADED

=> s l5
SAMPLE SEARCH INITIATED 14:44:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s l5 ful
FULL SEARCH INITIATED 14:44:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 163 TO ITERATE

100.0% PROCESSED 163 ITERATIONS 28 ANSWERS
SEARCH TIME: 00.00.01

L7 28 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	333.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

FILE 'CAPLUS' ENTERED AT 14:45:04 ON 29 JUN 2005
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FILE COVERS 1907 - 29 Jun 2005 VOL 143 ISS 1
FILE LAST UPDATED: 28 Jun 2005 (20050628/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 4 L7

=> d l8 ibib hitstr abs 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:252228 CAPLUS
DOCUMENT NUMBER: 140:287266
TITLE: Preparation of dihydropyrancarboxamides as e.g. kinesin inhibitors for treatment of proliferative disorders.
INVENTOR(S): Schreiber, Stuart L.; Stavenger, Robert A.; Mitchison, Timothy J.; Maliga, Zoltan
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 115 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

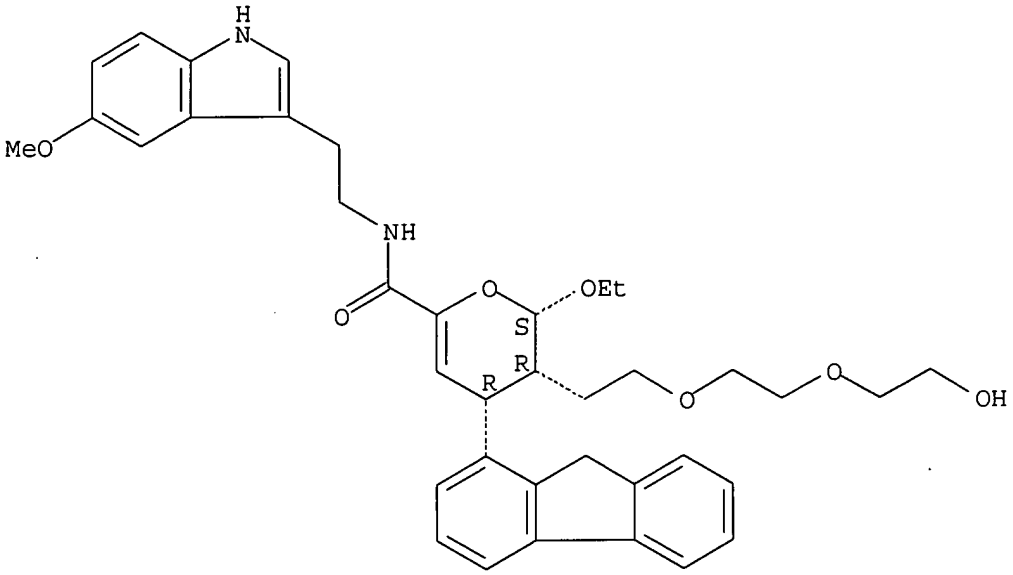
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004059138	A1	20040325	US 2003-649532		20030827
PRIORITY APPLN. INFO.:			US 2002-406140P	P	20020827

OTHER SOURCE(S): MARPAT 140:287266

IT **675139-86-3P 675139-87-4P 675139-93-2P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of dihydropyrancarboxamides as e.g. kinesin inhibitors for treatment of proliferative disorders)

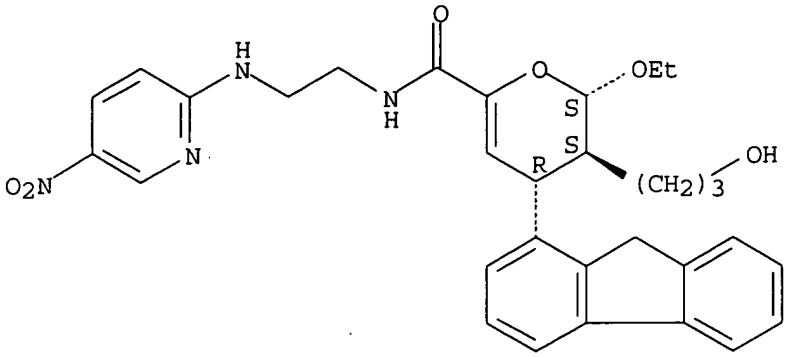
RN 675139-86-3 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-1-yl)-3,4-dihydro-3-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N-[2-(5-methoxy-1H-indol-3-yl)ethyl]-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



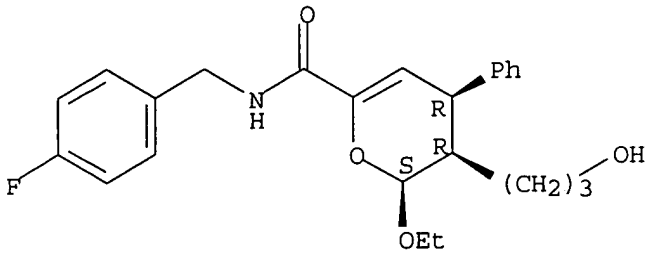
RN 675139-87-4 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-1-yl)-3,4-dihydro-3-(3-hydroxypropyl)-N-[2-[(5-nitro-2-pyridinyl)amino]ethyl]-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 675139-93-2 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-N-[(4-fluorophenyl)methyl]-3,4-dihydro-3-(3-hydroxypropyl)-4-phenyl-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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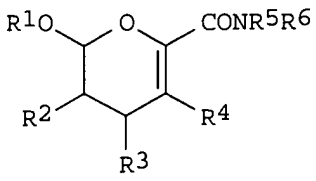

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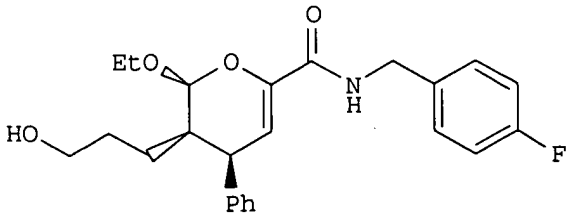


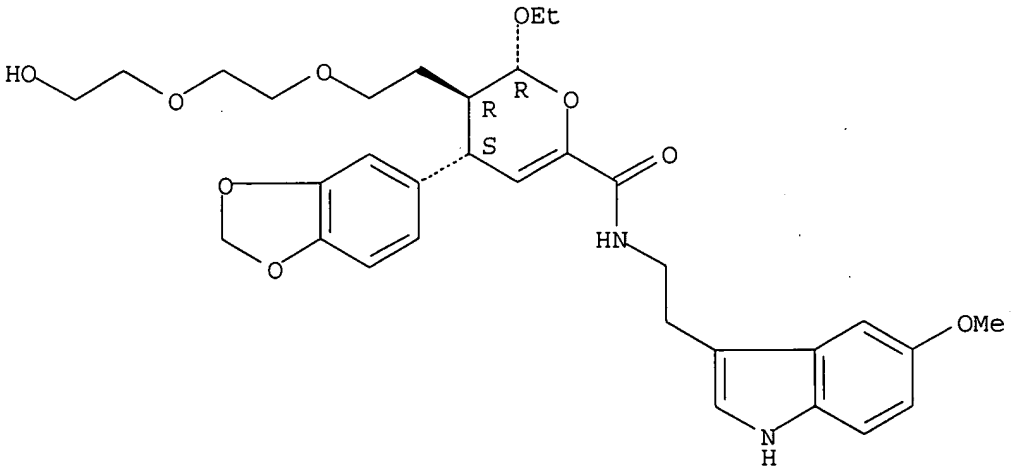
II

AB Title compds. [I; R1-R6 = H, (substituted) aliphatyl, heteroaliphatyl, aryl, heteroaryl, alkylaryl, alkylheteroaryl; R5R6 = atoms to form cyclic aliphatyl, heteroaliphatyl, aliphatylaryl, heteroaliphatylaryl, aliphatylheteroaryl, heteroaliphatylheteroaryl, aryl, heteroaryl], were

prepared A library of 4320 dihydropyrancarboxamides was prepared; claimed title compound (II) was shown to be inhibitory against Eg5 kinesin. Solid support synthesis and decoding methodolgy is described.

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:112577 CAPLUS
DOCUMENT NUMBER: 136:150765
TITLE: Decoding products of diversity pathways from stock solutions derived from single polymeric macrobeads
AUTHOR(S): Blackwell, Helen E.; Perez, Lucy; Schreiber, Stuart L.
CORPORATE SOURCE: Howard Hughes Medical Institute, Harvard Institute of Chemistry and Cell Biology, Harvard University, Cambridge, MA, 02138, USA
SOURCE: Angewandte Chemie, International Edition (2001), 40(18), 3421-3425
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **394252-96-1P 394253-07-7P 394253-10-2P**
394253-11-3P 394253-12-4P 394253-25-9P
394253-26-0P 394253-35-1P 394253-42-0P
394253-49-7P 394253-50-0P 394253-58-8P
394253-60-2P 394253-61-3P 394253-64-6P
394253-68-0P 394253-76-0P 395072-36-3P
395072-37-4P
RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP (Preparation)
(chloroarom. diazoketone tags and stock solns. in preparation and decoding and deconvolution of combinatorial libraries on macrobeads and use in preparation of nonracemic dihydropyrancarboxamide combinatorial library)
RN 394252-96-1 CAPLUS
CN 2H-Pyran-6-carboxamide, 4-(1,3-benzodioxol-5-yl)-2-ethoxy-3,4-dihydro-3-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N-[2-(5-methoxy-1H-indol-3-yl)ethyl]-, (2R,3R,4S)- (9CI) (CA INDEX NAME)

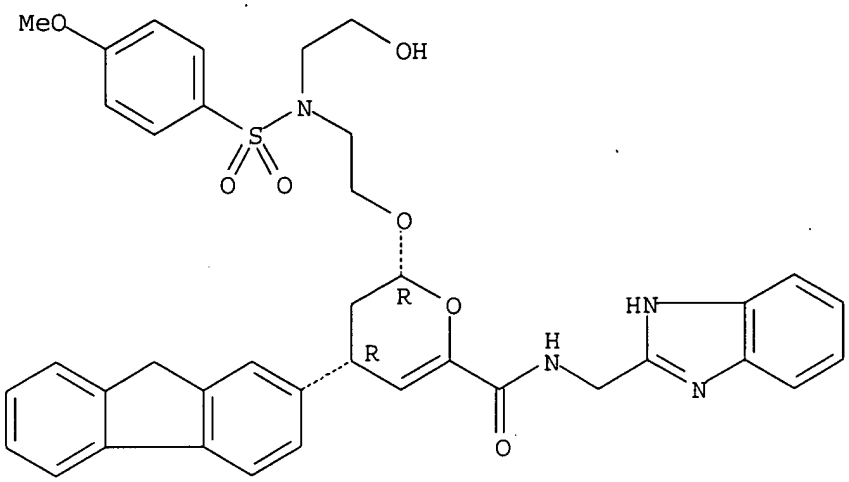
Absolute stereochemistry.



RN 394253-07-7 CAPLUS
CN 2H-Pyran-6-carboxamide, N-(1H-benzimidazol-2-ylmethyl)-4-(9H-fluoren-2-yl)-3,4-dihydro-2-[2-[(2-hydroxyethyl)[(4-methoxyphenyl)sulfonyl]amino]ethoxy]-

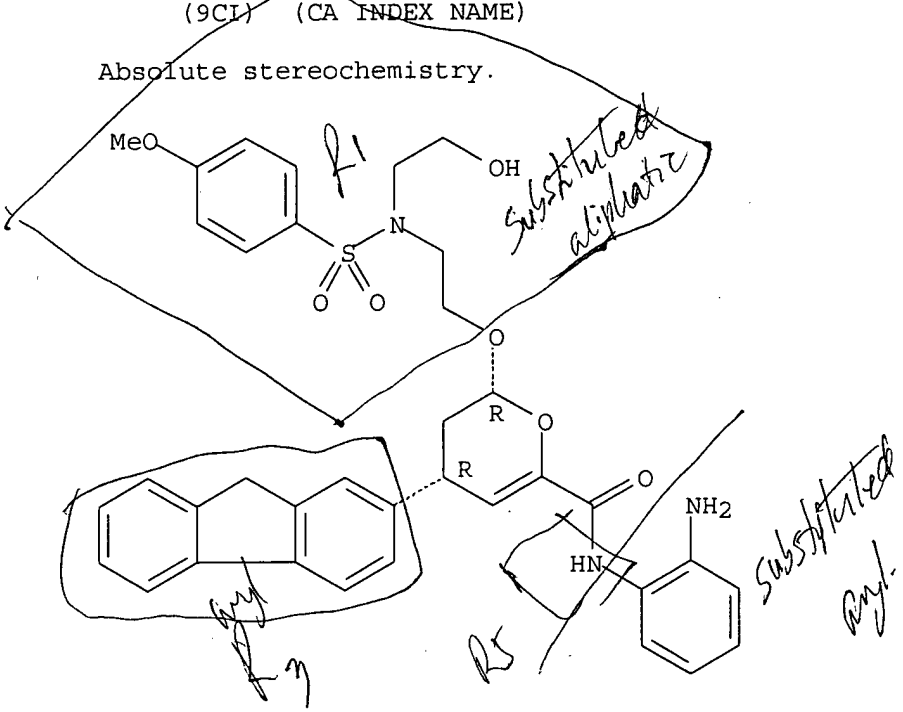
, (2R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



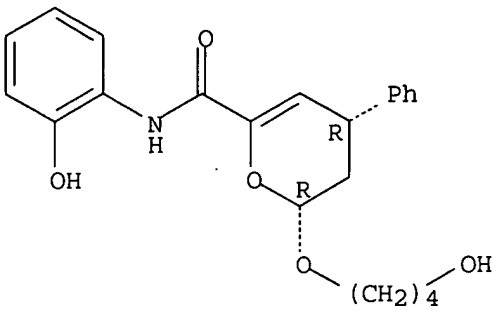
RN 394253-10-2 CAPLUS
CN 2H-Pyran-6-carboxamide, N-(2-aminophenyl)-4-(9H-fluoren-2-yl)-3,4-dihydro-2-[2-[(2-hydroxyethyl)[(4-methoxyphenyl)sulfonyl]amino]ethoxy]-, (2R,4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



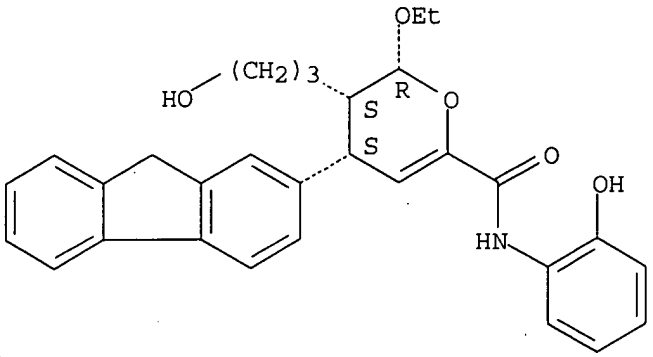
RN 394253-11-3 CAPLUS
CN 2H-Pyran-6-carboxamide, 3,4-dihydro-2-(4-hydroxybutoxy)-N-(2-hydroxyphenyl)-4-phenyl-, (2R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



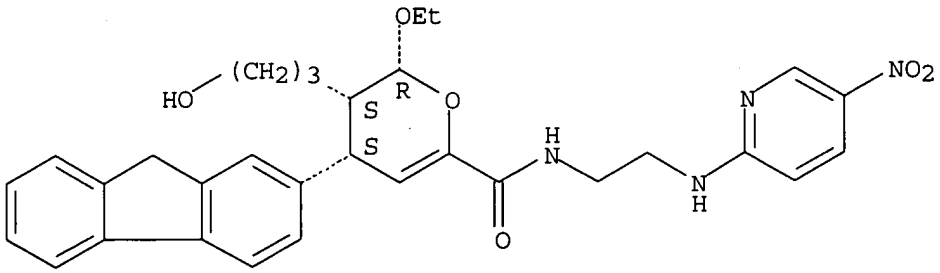
RN 394253-12-4 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-2-yl)-3,4-dihydro-N-(2-hydroxyphenyl)-3-(3-hydroxypropyl)-, (2R,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



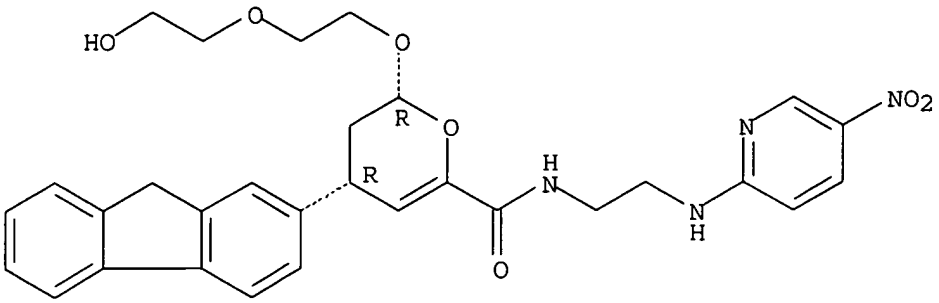
RN 394253-25-9 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-2-yl)-3,4-dihydro-3-(3-hydroxypropyl)-N-[2-[(5-nitro-2-pyridinyl)amino]ethyl]-, (2R,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



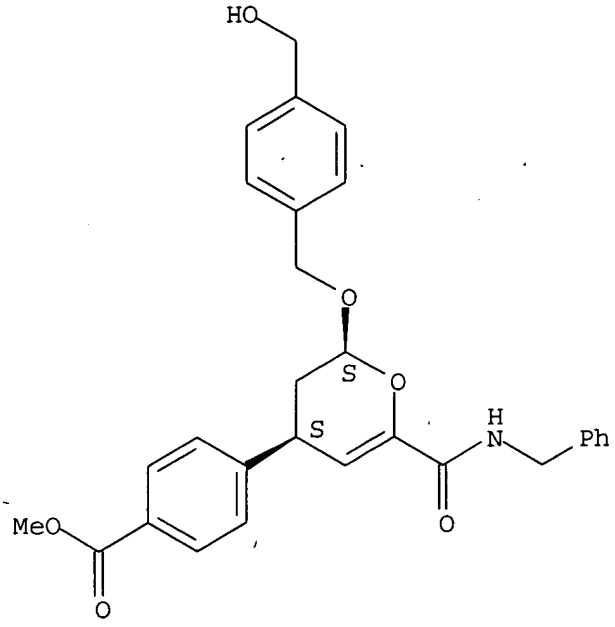
RN 394253-26-0 CAPLUS
CN 2H-Pyran-6-carboxamide, 4-(9H-fluoren-2-yl)-3,4-dihydro-2-[2-(2-hydroxyethoxy)ethoxy]-N-[2-[(5-nitro-2-pyridinyl)amino]ethyl]-, (2R,4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



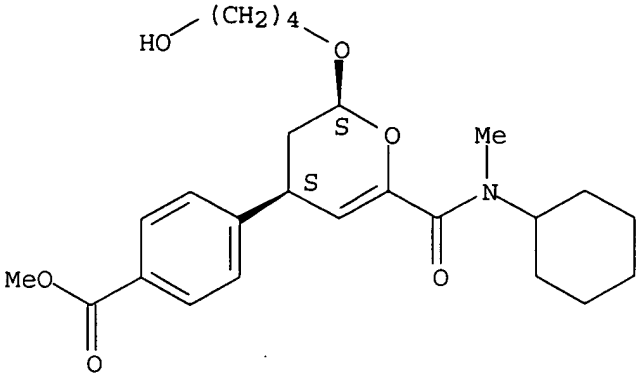
RN 394253-35-1 CAPLUS
CN Benzoic acid, 4-[(2S,4S)-3,4-dihydro-2-[[4-(hydroxymethyl)phenyl]methoxy]-6-[[(phenylmethyl)amino]carbonyl]-2H-pyran-4-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



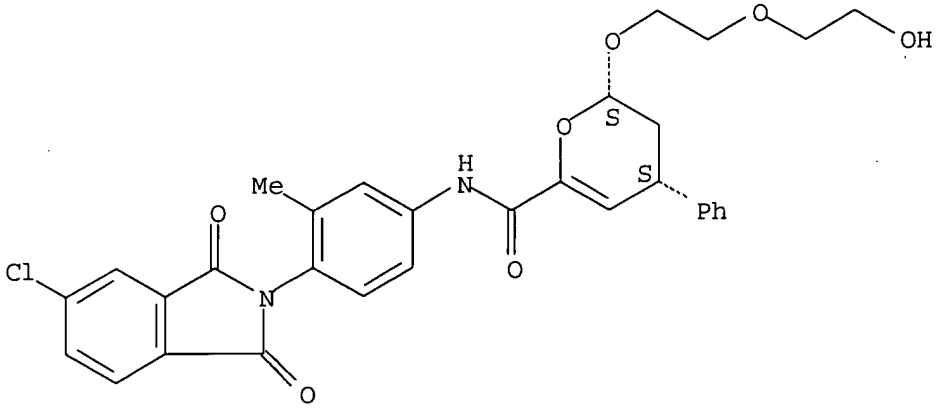
RN 394253-42-0 CAPLUS
CN Benzoic acid, 4-[(2S,4S)-6-[(cyclohexylmethylamino)carbonyl]-3,4-dihydro-2-(4-hydroxybutoxy)-2H-pyran-4-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



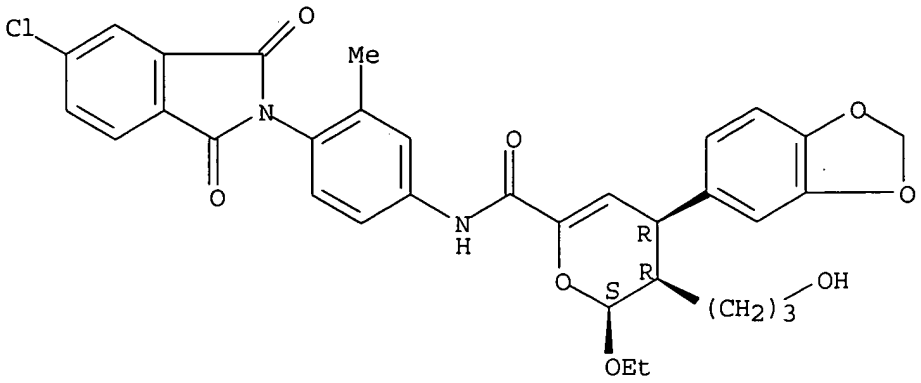
RN 394253-49-7 CAPLUS
CN 2H-Pyran-6-carboxamide, N-[4-(5-chloro-1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-3-methylphenyl]-3,4-dihydro-2-[2-(2-hydroxyethoxy)ethoxy]-4-phenyl-, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



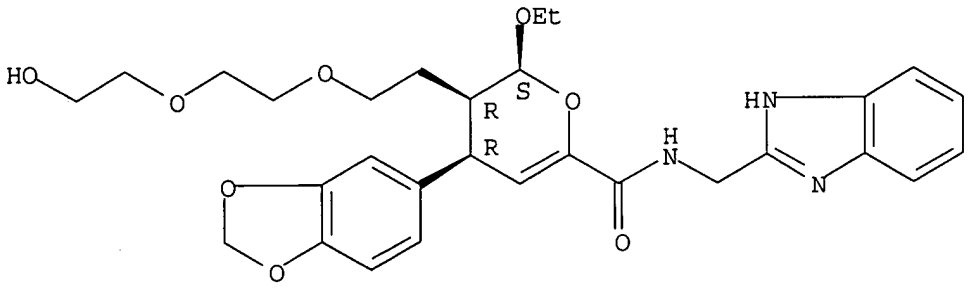
RN 394253-50-0 CAPLUS
CN 2H-Pyran-6-carboxamide, 4-(1,3-benzodioxol-5-yl)-N-[4-(5-chloro-1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-3-methylphenyl]-2-ethoxy-3,4-dihydro-3-(3-hydroxypropyl)-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



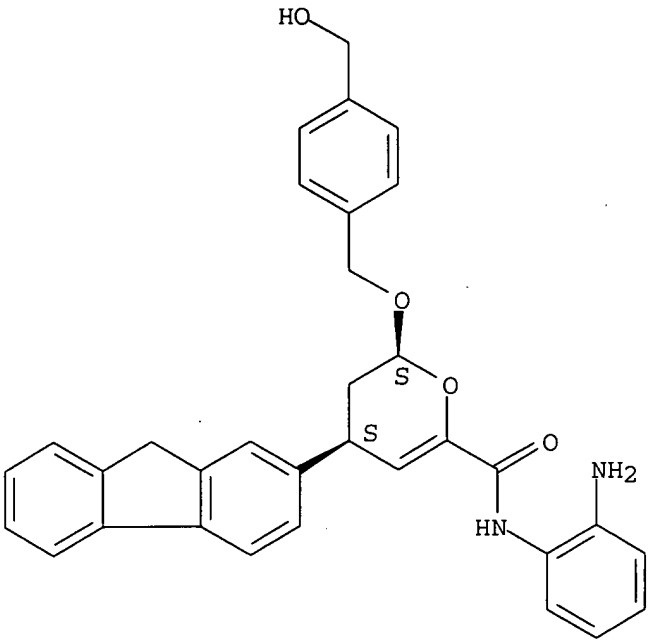
RN 394253-58-8 CAPLUS
CN 2H-Pyran-6-carboxamide, N-(1H-benzimidazol-2-ylmethyl)-4-(1,3-benzodioxol-5-yl)-2-ethoxy-3,4-dihydro-3-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



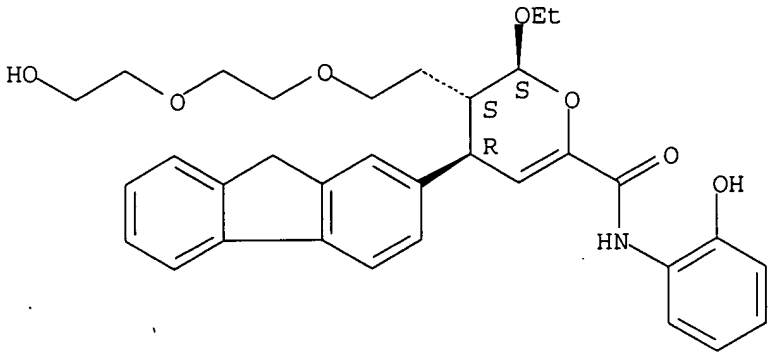
RN 394253-60-2 CAPLUS
CN 2H-Pyran-6-carboxamide, N-(2-aminophenyl)-4-(9H-fluoren-2-yl)-3,4-dihydro-2-[[4-(hydroxymethyl)phenyl]methoxy]-, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



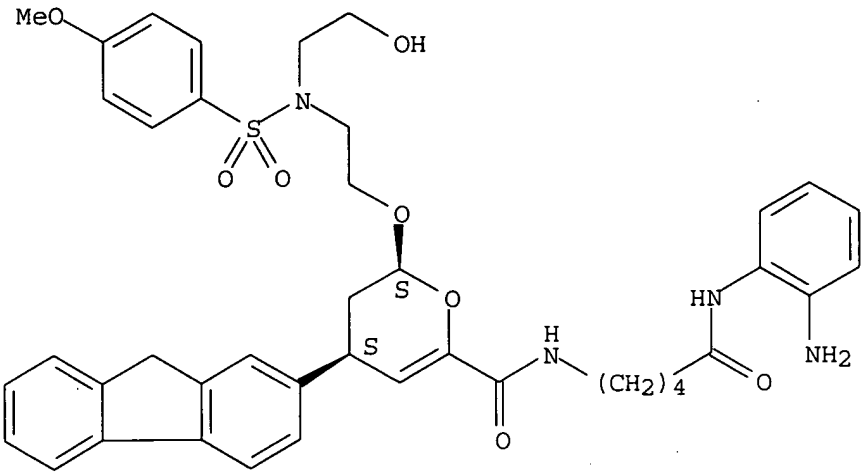
RN 394253-61-3 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-2-yl)-3,4-dihydro-3-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N-(2-hydroxyphenyl)-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



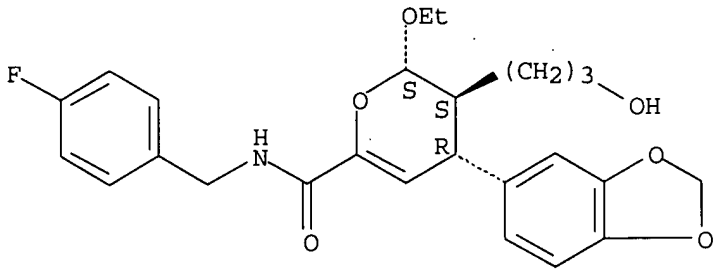
RN 394253-64-6 CAPLUS
CN 2H-Pyran-6-carboxamide, N-[5-[(2-aminophenyl)amino]-5-oxopentyl]-4-(9H-fluoren-2-yl)-3,4-dihydro-2-[2-[(2-hydroxyethyl)[(4-methoxyphenyl)sulfonyl]amino]ethoxy]-, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



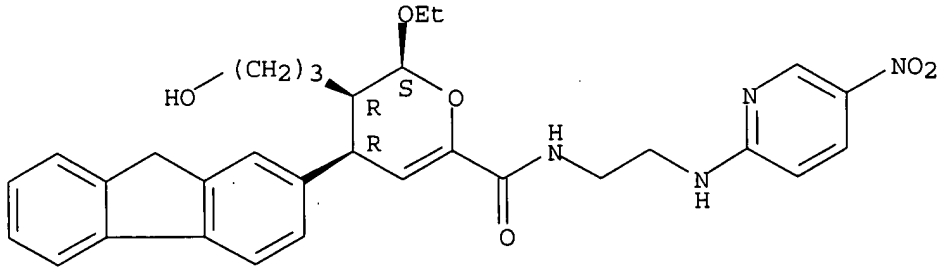
RN 394253-68-0 CAPLUS
CN 2H-Pyran-6-carboxamide, 4-(1,3-benzodioxol-5-yl)-2-ethoxy-N-[(4-fluorophenyl)methyl]-3,4-dihydro-3-(3-hydroxypropyl)-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 394253-76-0 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-2-yl)-3,4-dihydro-3-(3-hydroxypropyl)-N-[2-[(5-nitro-2-pyridinyl)amino]ethyl]-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

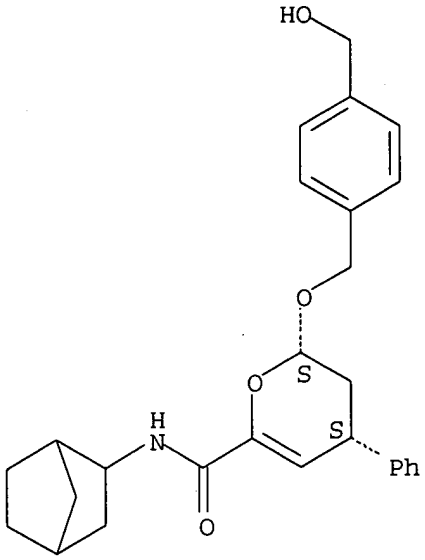
Absolute stereochemistry.



RN 395072-36-3 CAPLUS
CN 2H-Pyran-6-carboxamide, N-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-2-[[4-

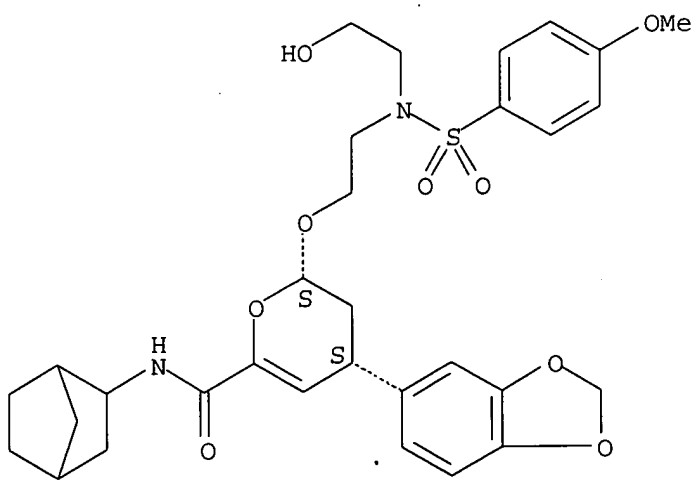
(hydroxymethyl)phenyl]methoxy]-4-phenyl-, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 395072-37-4 CAPLUS
CN 2H-Pyran-6-carboxamide, 4-(1,3-benzodioxol-5-yl)-N-bicyclo[2.2.1]hept-2-yl-3,4-dihydro-2-[2-[(2-hydroxyethyl)[(4-methoxyphenyl)sulfonyl]amino]ethoxy]-, (2S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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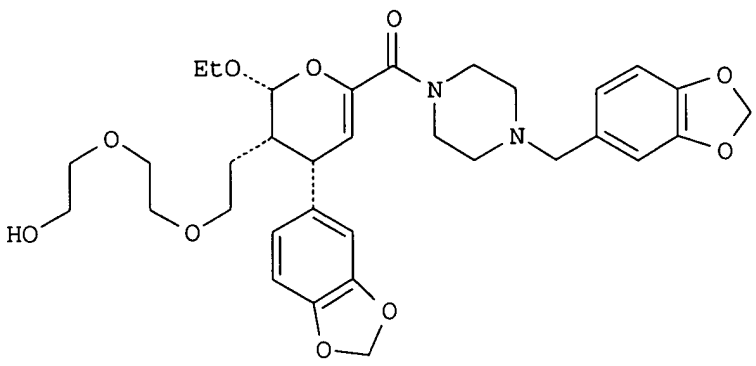
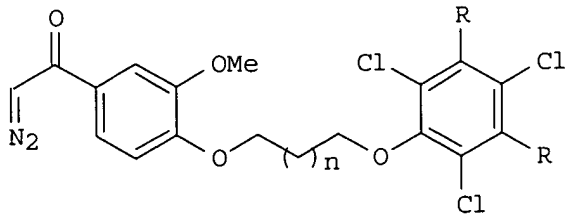


I



II

AB A combinatorial library of nonracemic dihydropyrancarboxamides such as I [prepared on solid phase by the enantioselective Diels-Alder cycloaddn. of resin-bound vinyl ethers with allyl β,γ-unsatd.-α-ketoesters in the presence of nonracemic bisoxazoline ligands and copper (II) triflate] using a novel tagging technique for the labeling and identification of members of combinatorial libraries. Chloroarom. diazoketones II (n = 1, 7, 14; R = H, Cl) were used as tagging agents to identify the sequence of reactions to which a resin bead had been subjected; treatment of a resin bead with II in the presence of dirhodium tetrakis(triphenylacetate) yielded a polystyrene resin containing a fraction of chloroaralkyl cycloheptatriene moieties (formed by ring expansion of the polystyrene Ph groups). Oxidative cleavage of the tags with ceric ammonium nitrate liberated the chloroarom. portion of the tags; treatment of the tags with N,O-bis(trimethylsilyl)acetamide and gas chromatog. yielded masses corresponding to the sequence of reactions to which beads were subjected and thus their identities. The tags could be decoded either directly from a bead before compound cleavage, from a bead after compound cleavage, or from compound stock solns. (generated by compound cleavage and dissoln. of a fraction of the liberated compds. in THF/H2O). Decoding compound stock solns. was the most effective method of identifying library members; compds. were identified by tag cleavage of solns. containing 1 or 5% of the compound cleaved from a single bead. Stock solns. were decoded most effectively because a fraction of the library member on a given bead was tagged with the chloroarom. diazoketone in addition to the polystyrene resin (due to the high-loading resin used) and because oxidative cleavage of the tags with CAN proceeded more readily in solution than on solid support. A sublibrary of 108 beads chosen from the larger combinatorial library was decoded by this procedure; of the 108 compds., 107 were successfully decoded. Four different synthetic pathways were found to be compatible with the diazoketone tagging methodol. (no data). The use of stock solns. for the decoding and deconvolution of combinatorial libraries is amenable

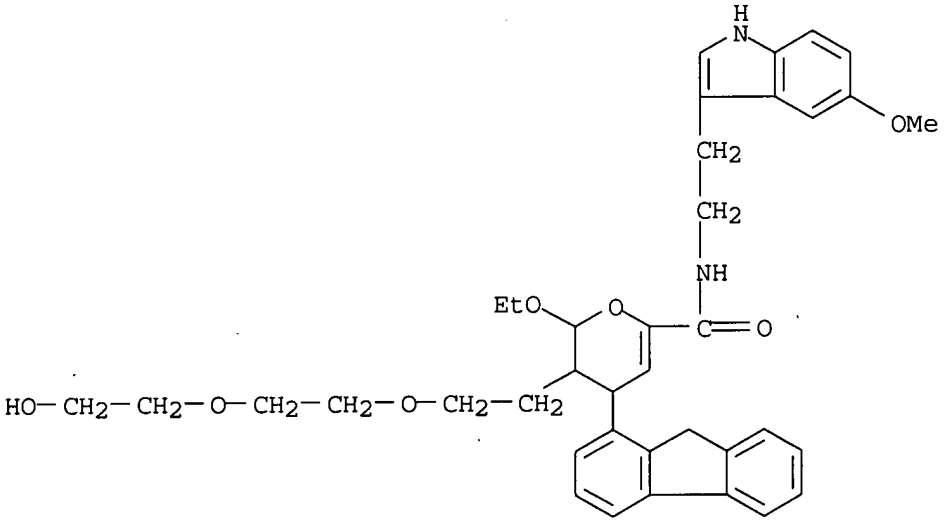
to robotic methods for combinatorial library synthesis and testing, minimizes the storage requirements for combinatorial libraries, and allows for simpler and faster compound identification.

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:2523 CAPLUS
DOCUMENT NUMBER: 137:93369
TITLE: A one-bead, one-stock solution approach to chemical genetics: part 2
AUTHOR(S): Clemons, Paul A.; Koehler, Angela N.; Wagner, Bridget K.; Sprigings, Timothy G.; Spring, David R.; King, Randall W.; Schreiber, Stuart L.; Foley, Michael A.
CORPORATE SOURCE: Howard Hughes Medical Institute at Harvard University, Cambridge, MA, 02138, USA
SOURCE: Chemistry & Biology (2001), 8(12), 1183-1195
CODEN: CBOLE2; ISSN: 1074-5521
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

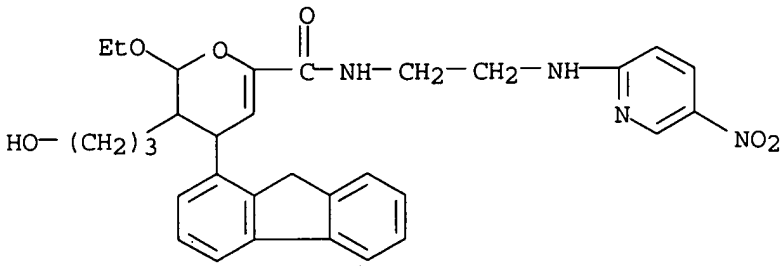
11/01 09 1,2e 102 (a)

IT **438625-00-4P 438625-04-8P**
RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation)
(bead arraying, processing, and assaying in one-bead, one-stock solution approach to chemical genetics)

RN 438625-00-4 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-1-yl)-3,4-dihydro-3-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N-[2-(5-methoxy-1H-indol-3-yl)ethyl]- (9CI) (CA INDEX NAME)



RN 438625-04-8 CAPLUS
CN 2H-Pyran-6-carboxamide, 2-ethoxy-4-(9H-fluoren-1-yl)-3,4-dihydro-3-(3-hydroxypropyl)-N-[2-[(5-nitro-2-pyridinyl)amino]ethyl]- (9CI) (CA INDEX NAME)



AB Background: Chemical genetics provides a systematic means to study biol. using small mols. to effect spatial and temporal control over protein function. As complementary approaches, phenotypic and proteomic screens of structurally diverse and complex small mols. may yield not only interesting individual probes of biol. function, but also global information about small mol. collections and the interactions of their members with biol. systems. Results: We report a general high-throughput method for converting high-capacity beads into arrayed stock solns. amenable to both phenotypic and proteomic assays. Polystyrene beads from diversity-oriented syntheses were arrayed individually into wells. Bound compds. were cleaved, eluted, and resuspended to generate 'mother plates' of stock solns. The second phase of development of our technol. platform includes optimized cleavage and elution conditions, a novel bead arraying method, and robotic distribution of stock solns. of small mols. into 'daughter plates' for direct use in chemical genetic assays. This library formatting strategy enables what we refer to as annotation screening, in which every member of a library is annotated with biol. assay data. This phase was validated by arraying and screening 708 members of an encoded 4320-member library of structurally diverse and complex dihydropyrancarboxamides. Conclusions: Our 'one-bead, multiple-stock solution' library formatting strategy is a central element of a technol. platform aimed at advancing chemical genetics. Annotation screening provides a means for biol. to inform chemical, complementary to the way that chemical can inform biol. in conventional ('investigator-initiated') small mol. screens.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:497822 CAPLUS
DOCUMENT NUMBER: 131:322661
TITLE: Hetero-Diels-Alder reactions of α-carbonylated styrylphosphonates with enol ethers. High-pressure influence on reactivity and diastereoselectivity
AUTHOR(S): Al-Badri, Hashim; Maddaluno, Jacques; Masson, Serge; Collignon, Noel
CORPORATE SOURCE: Laboratoire d'Heterochimie Organique, INSA de Rouen, UPRES-A 6014 CNRS, l'IRCOF, Mont-Saint-Aignan, 76131, Fr.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1999), (16), 2255-2266
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

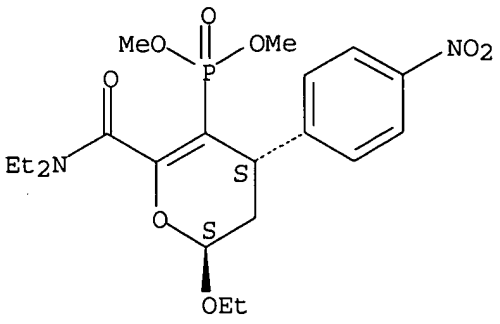
OTHER SOURCE(S): CASREACT 131:322661

IT **248603-04-5P 248603-05-6P 248603-06-7P 248603-07-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 248603-04-5 CAPLUS

CN Phosphonic acid, [(2R,4R)-6-[(diethylamino)carbonyl]-2-ethoxy-3,4-dihydro-4-(4-nitrophenyl)-2H-pyran-5-yl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

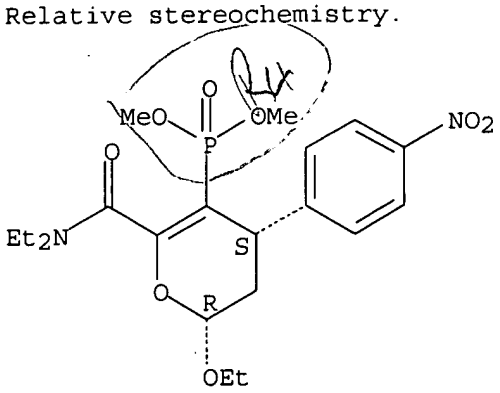
Relative stereochemistry.



RN 248603-05-6 CAPLUS

CN Phosphonic acid, [(2R,4S)-6-[(diethylamino)carbonyl]-2-ethoxy-3,4-dihydro-4-(4-nitrophenyl)-2H-pyran-5-yl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

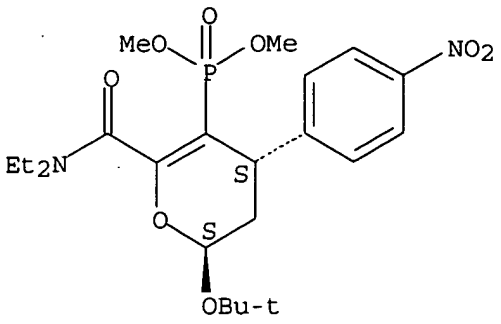
Relative stereochemistry.



RN 248603-06-7 CAPLUS

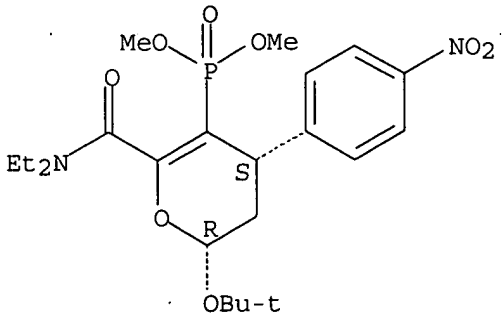
CN Phosphonic acid, [(2R,4R)-6-[(diethylamino)carbonyl]-2-(1,1-dimethylethoxy)-3,4-dihydro-4-(4-nitrophenyl)-2H-pyran-5-yl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

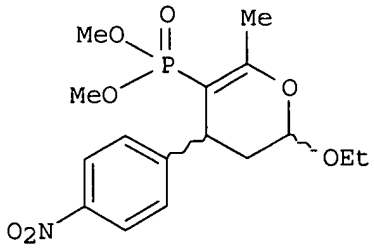


RN 248603-07-8 CAPLUS
CN Phosphonic acid, [(2R,4S)-6-[(diethylamino)carbonyl]-2-(1,1-dimethylethoxy)-3,4-dihydro-4-(4-nitrophenyl)-2H-pyran-5-yl]-, dimethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



GI



I

AB Variously substituted α-carbonylated styrylphosphonates were easily prepared by Knoevenagel-type syntheses, used as oxadienes in hetero-Diels-Alder [4 + 2] cycloaddns. with enol ethers, to give new phosphonylated 3,4-dihydro-2H-pyrans 6, e.g. I. It was confirmed that the reactivity , as well as the trans-diastereoselectivity of the reaction, was significantly enhanced by the use of high-pressure conditions, particularly in the presence of ButOH as a co-solvent. Moreover, a

one-pot synthesis of 6 via a tandem-sequence Knoevenagel and hetero-Diels-Alder reactions was achieved.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

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STN INTERNATIONAL LOGOFF AT 14:49:23 ON 29 JUN 2005